## What Is Claimed Is:

1 A method for treatment and post-2 treatment of the stenosed region of /an artery 3 comprising the steps of: reducing the annular stemosed area within an 5 artery; and 6 applying a radioactive/dose to the area of 7 reduced stenosis. A method as defined in Claim 1 wherein 1 2 the step of applying the radioactive dose is sufficient 3 to affect smooth muscle cells within the area of reduced stenosis to inhibit/rapid growth of such cells, 4 thereby preventing restenosis of the artery. 5 3. A method as defined in Claim 1 further 1 2 including the step of continuing to reduce the annular stenosed area while/app/lying a radioactive dose to said 3 4 area. A method as defined in Claim 1 including 1 the step of allowing blood flow through the area of 2 3 reduced stenosis while applying the radioactive dose. 1 A method as defined in Claim 1 including 2 the contacting of the tissue of the area of reduced stenosis with /a radioactive material. 3 A method as defined in Claim 1 further 1 2 including the step of containing a source of radioactive dose before and after exposure to said area 3 of reduced stenosis. 4 7. A method for treatment and post-1 2 treatment of the stenosed region of an artery after

reduction of said region by angioplasty or other means comprising the step of applying a radioactive dose to said reduced region of the artery.

- 8. A method as defined in Claim 1 wherein the step of applying the radioactive dose is sufficient to affect smooth muscle cells within the area of reduced stenosis, thereby inhibiting rapid growth of such cells and preventing restenosis of the artery.
- 9. Apparatus for post-treatment of a stenosed region of an artery that has been reduced by angioplasty or other means comprising: radioactive dose means; and

positioning means operatively connected to said dose means to position said dose means within the stenosed region of an artery that has been reduced by angioplasty or other means

- 10. Apparatus as in Claim 9 wherein the positioning means includes a retractable sheath which may be removably positioned over said radioactive dose means.
- 11. Apparatus as in Claim 9 wherein the positioning means further includes an angioplasty balloon and said radioactive dose means is connected to said balloon and is positioned in the stenosed region by expansion of said balloon.
- 12. Apparatus as in Claim 9 wherein the positioning means includes a stent and said radioactive dose means is associated with said stent.